

FIG. 1 is a block diagram of a system architecture. The diagram shows a user (7) sending a request (USER ID/PASSWORD/URL) to a gateway (1). The gateway (1) contains a data transmission/reception unit (2), an authentication unit (3), and a designation conversion unit (4). The authentication unit (3) is connected to an authentication table (5). The designation conversion unit (4) is connected to a designation conversion table (6). The gateway (1) sends a representative ID/representative password/designation URL to another gateway (8) and an information service provider (9). The information service provider (9) contains a gateway (10) which is connected to an information service provider (10).

FIG.1

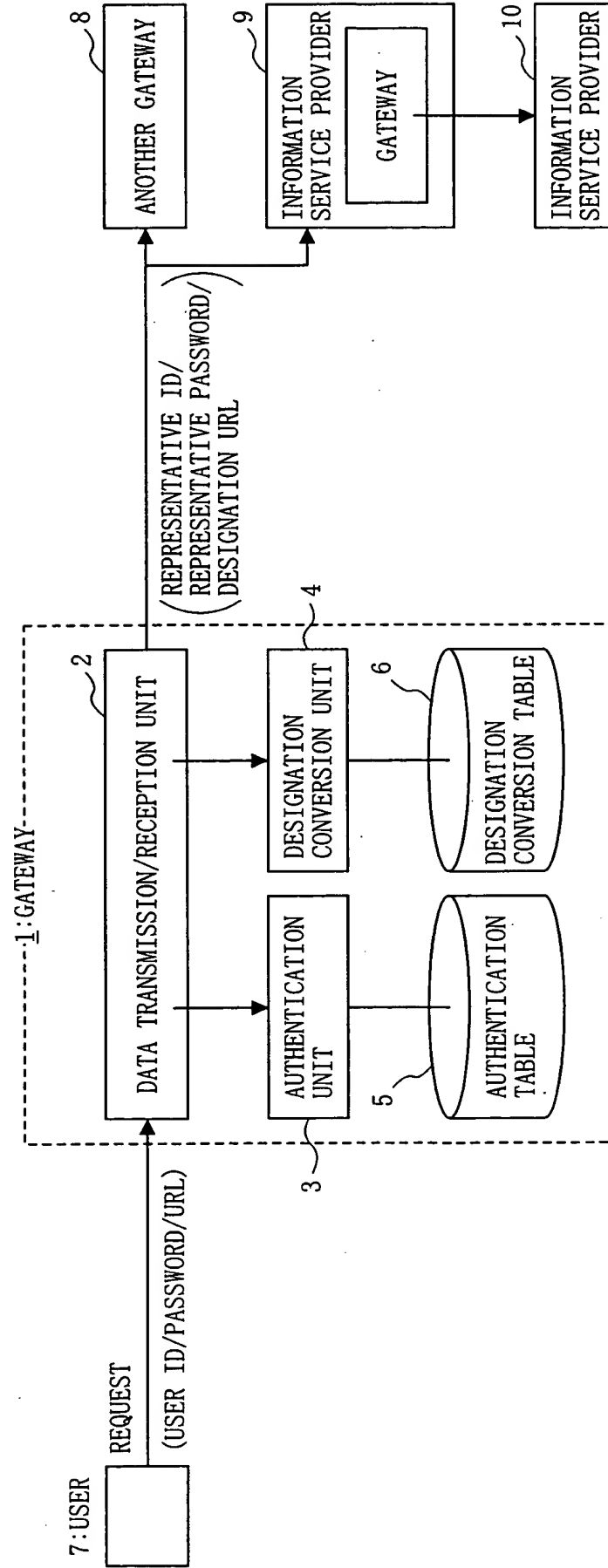
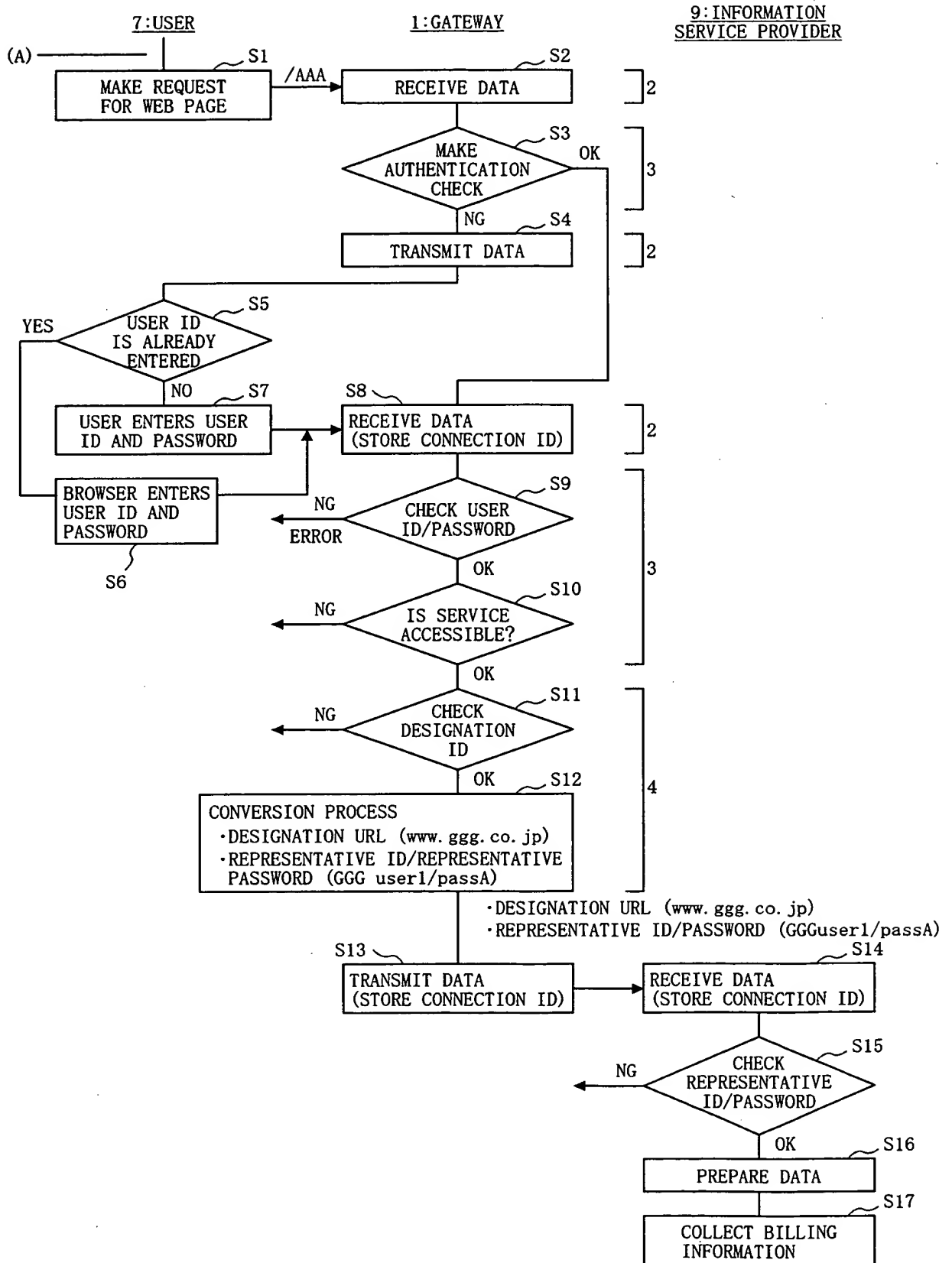


FIG.2



TO FIG. 3(B)

FIG.3

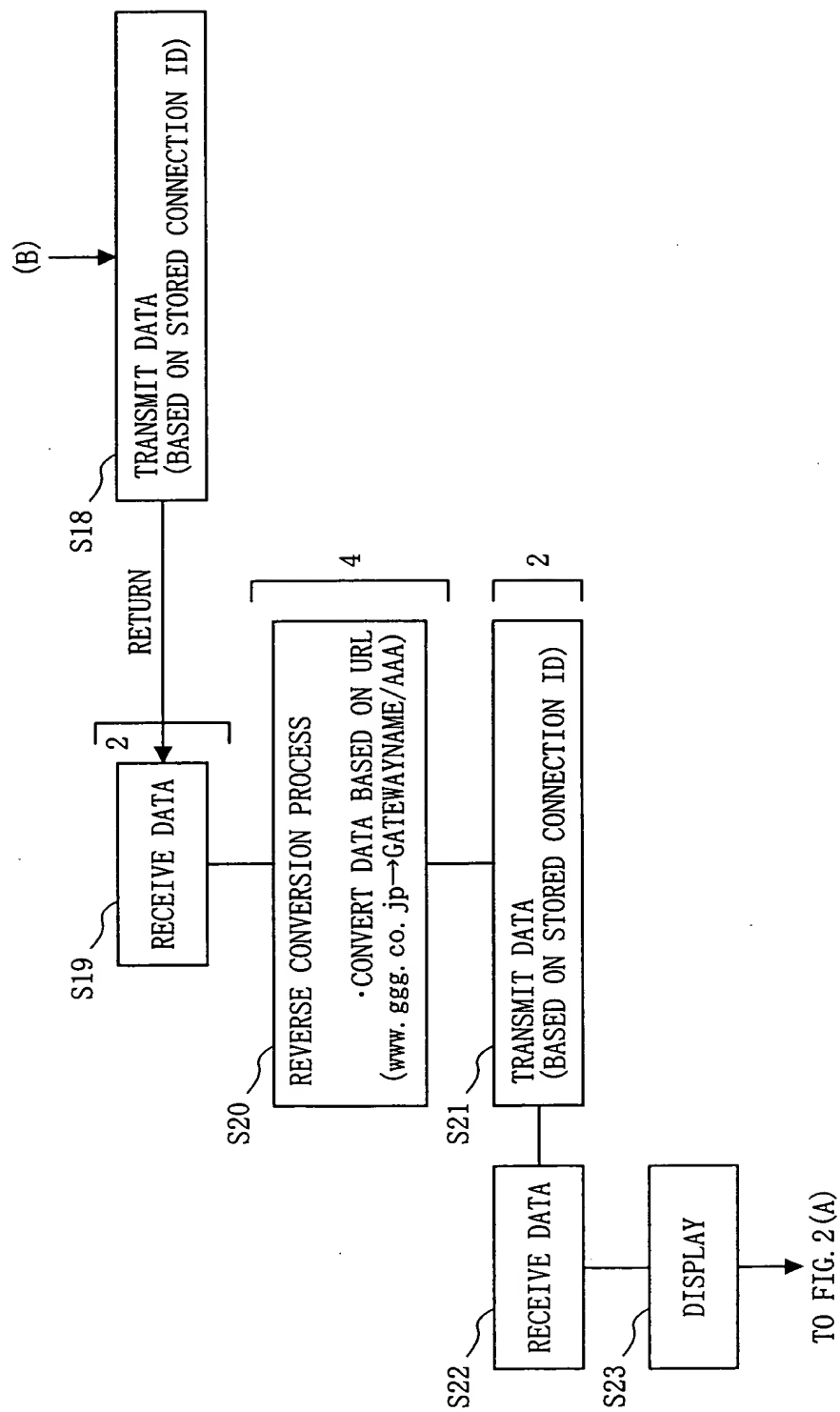


FIG. 4 is a diagram illustrating a design conversion process. The diagram shows a flow from a design input to a design output, with a design conversion table (FIG. 4) used to convert the design input into the design output. The design conversion table is a table that maps design input values to design output values. The design input values are represented by the columns of the table, and the design output values are represented by the rows of the table. The design conversion table is used to convert the design input values into the design output values by looking up the corresponding design output value in the table for a given design input value.

AUTHENTICATION TABLE

5

USER ID	PASSWORD	AUTHORIZED INFORMATION (DESIGNATION ID)	OPTION ID (ORGANIZATION ID, etc.)
user1	pass1	AAA, BBB	
user2	pass2	CCC	opt1
.	.	.	.
.	.	.	.
.	.	.	.

①→

(a)

DESIGNATION CONVERSION TABLE

6

DESIGNATION ID	DESIGNATION URL	REPRESENTATIVE ID	REPRESENTATIVE PASSWORD
AAA	www.ggg.co.jp	GGG + USER ID + OPTION ID	passA
BBB	www.fff.co.jp	FFF + USER ID + OPTION ID	passB
CCC	www.hhh.co.jp	HHH + USER ID + OPTION ID	passC
FFF	www.fujitsu.co.jp		

②→

(b)

FIG.4

FIG. 5

(a) (b) (c)

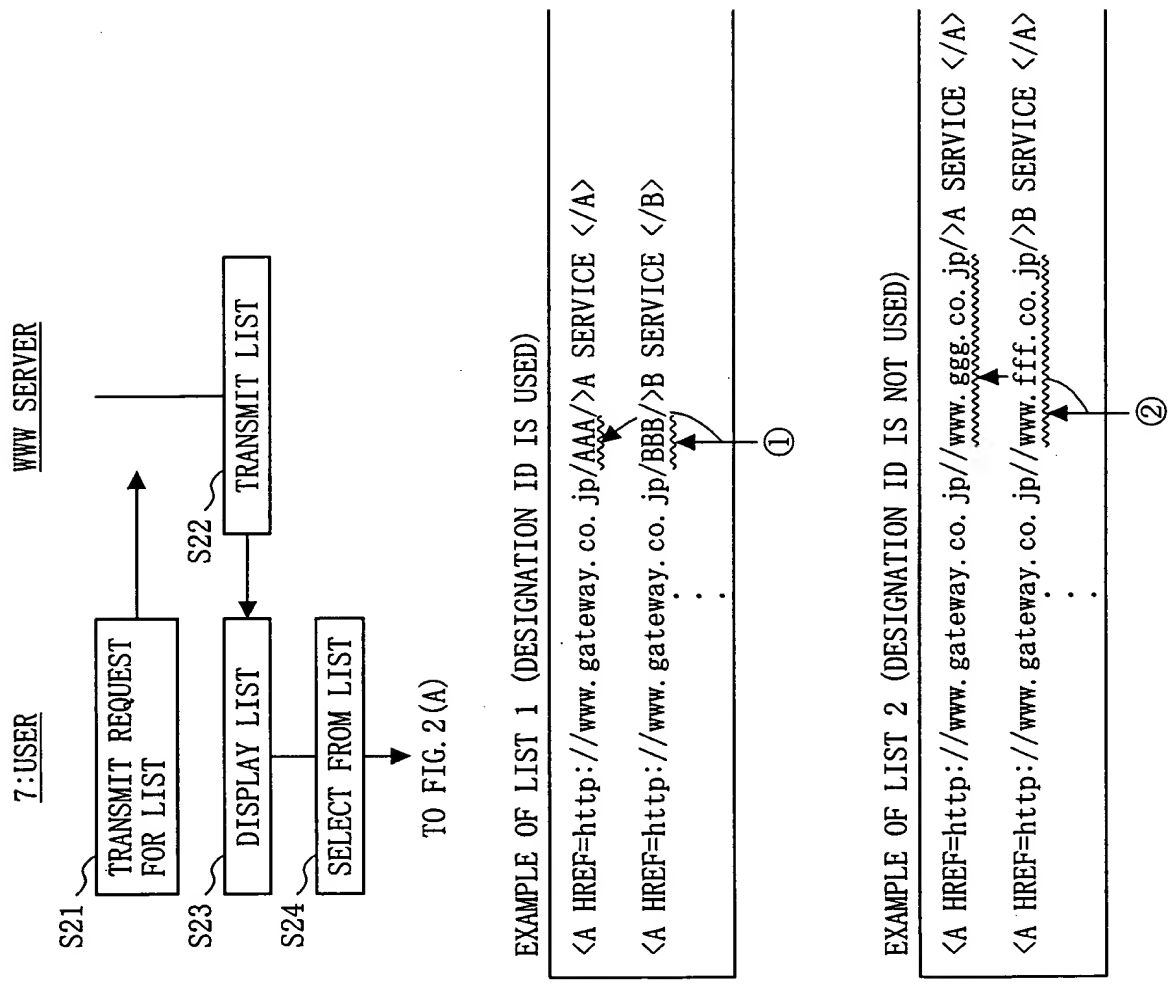


FIG.6

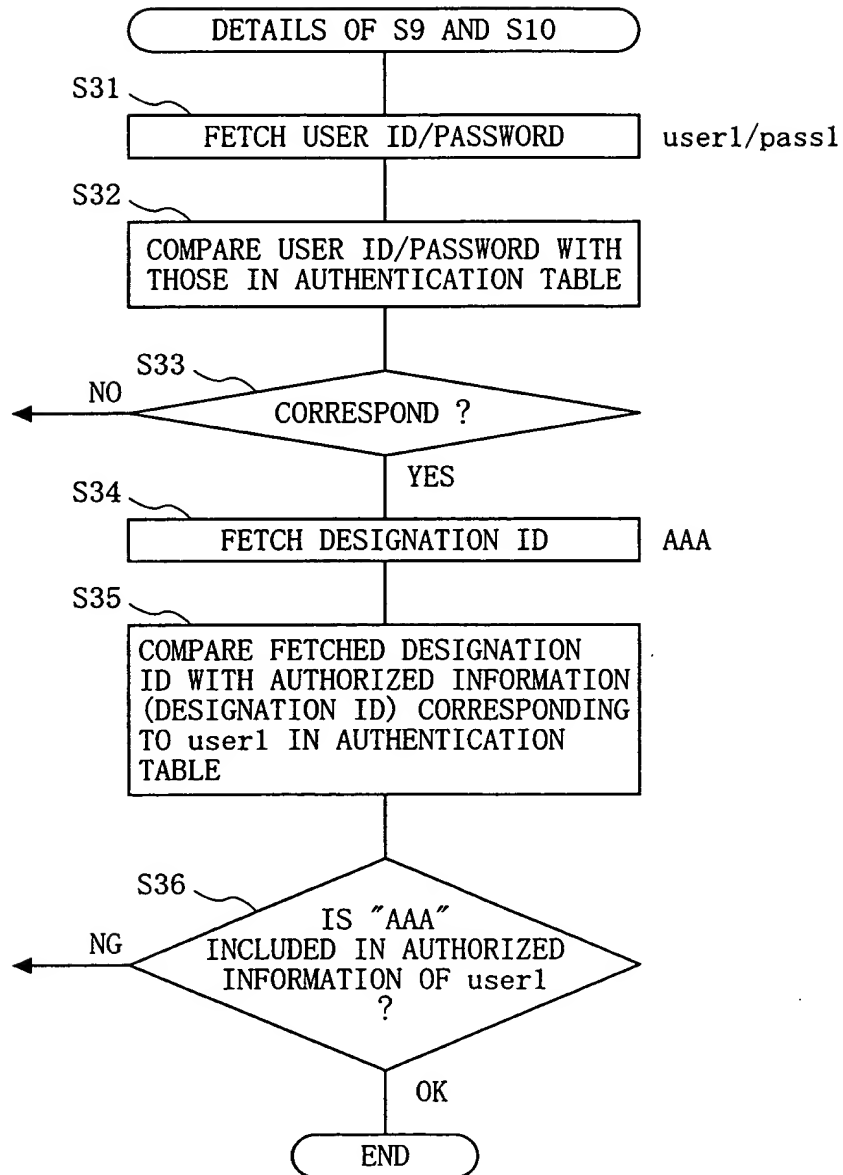


FIG.7

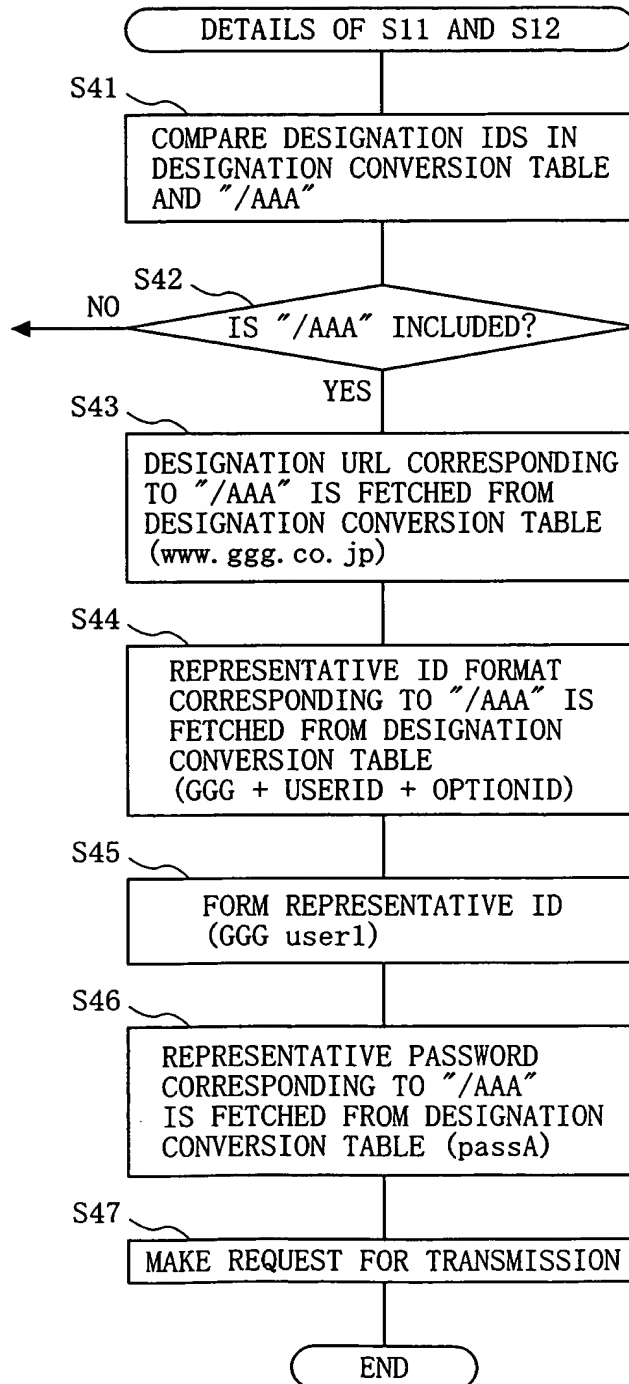


FIG.8

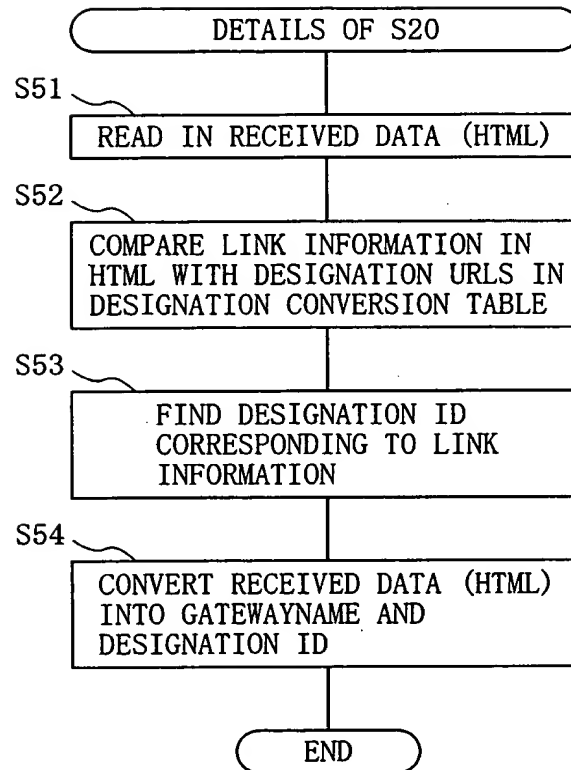


FIG.9

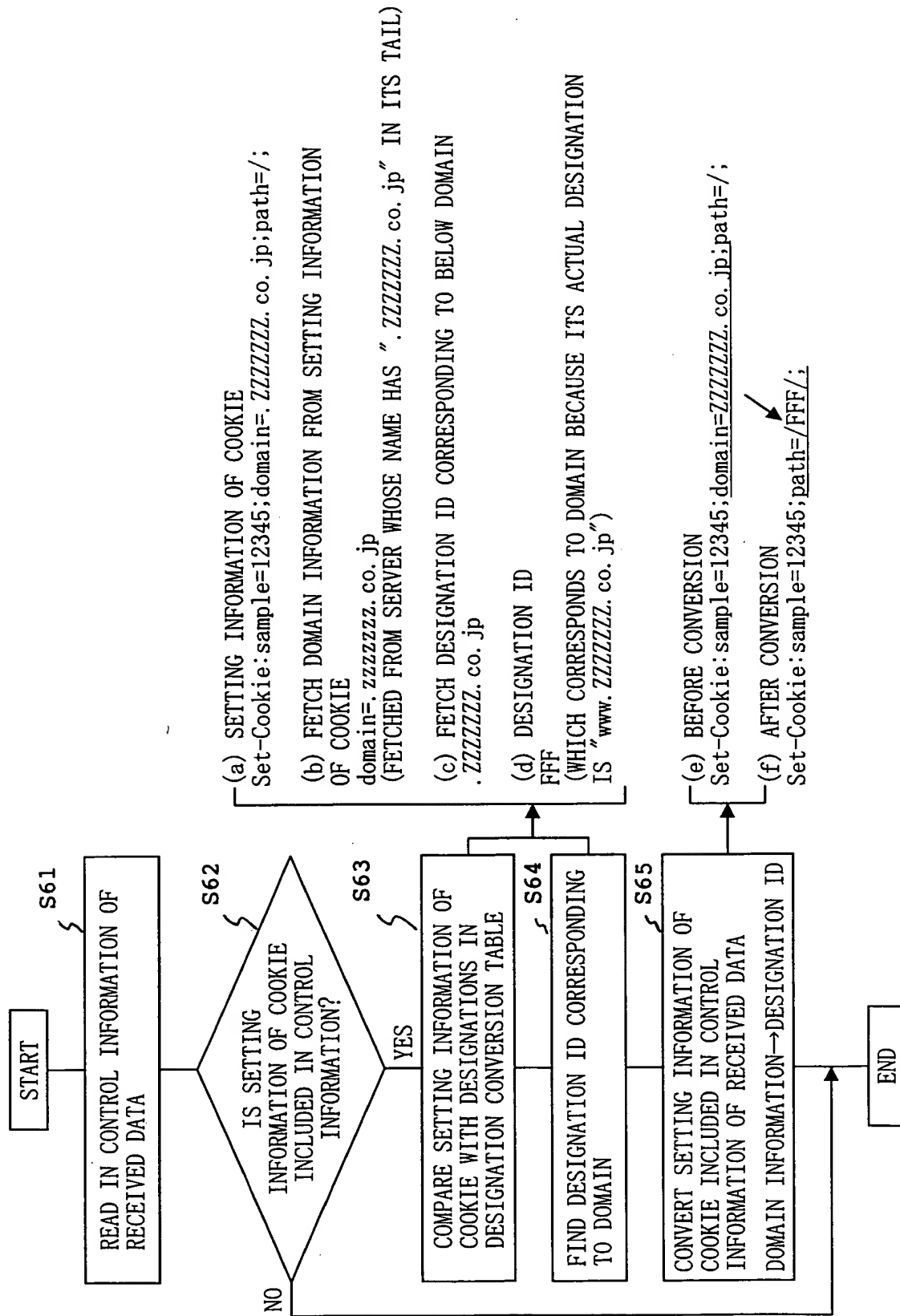


FIG.10

